Pipemaster® 70



AWS E7010-P1 (E4910-P1) EN ISO 2560-A-E 42 3 C21

WELDING POSITIONS:



FEATURES:

BENEFITS:

- Quick-starting
- All-position
- Excellent vertical down
- Excellent arc stability
- Superior arc drive
- Excellent wash-in Light slag
- · Faster travel speeds
- Welding accuracy and efficiency
- **Excellent penetration**
- · Maximizes fusion of joints
- · Quick and easy cleaning of weld bead

Easy arc striking and increased welding efficiency Welds in flat, horizontal, vertical and overhead positions

Shipbuilding

APPLICATIONS:

- Drill platforms Storage tanks
- Pipeline welding using downhill travel
- · Welding of high-yield pipe steels

TYPE OF CURRENT: Direct Current Electrode Positive (DCEP)

RECOMMENDED WELDING TECHNIQUES:

GENERAL: Electrode positive, work negative (DCEP)

Average length (1/8" to 1/4") ARC LENGTH:

FLAT: Stay ahead of puddle and use slight whipping motion

VERTICAL-UP: Slight whipping or weaving technique

Use higher amperage and faster travel, staying ahead of puddle VERTICAL-DOWN: **OVERHEAD:** Use similar technique as for vertical-up, multi-pass for build-up

PIPE: Use downhill travel

STORAGE: Dry at room temperature. **RECONDITIONING:** Not recommended

TYPICAL WELD METAL PROPERTIES* (Chem Pad):

Weld Metal Analysis (%)		AWS Spec (max)
Carbon (C)	0.15	0.20
Manganese (Mn)	0.54	1.20
Phosphorus (P)	0.01	0.03
Sulphur (S)	0.01	0.03
Silicon (Si)	0.14	0.60
Chromium (Cr)	0.02	0.30
Vanadium (V)	0.01	0.10
Nickel (Ni)	0.72	1.00
Molybdenum (Mo)	<0.01	0.50

TYPICAL MECHANICAL PROPERTIES* (As Welded):

		AWS Spec (min)
Tensile Strength	83,000 psi (570 MPa)	70,000 psi
Yield Strength	69,000 psi (475 MPa)	60,000 psi
Elongation % in 2"	25%	22%

TYPICAL CHARPY V-NOTCH IMPACT VALUES* (As Welded):

		AWS Spec (min)
Avg. at -20°F (-29°C)	57 ft•lbs (78 Joules)	20 ft•lbs

NOTE: Pipemaster 70 is a low-alloy cellulosic electrode. Preheat, interpass and post-heating temperatures between 325°F and 375°F should be employed if ambient temperatures are below 32°F (0°C).

^{*}The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and Hobart Brothers LLC expressly disclaims any liability incurred from any reliance thereon. Typical data are those obtained when welded and tested in accordance with the AWS A5.5 specification. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart Brothers LLC.

Pipemaster® 70

Diameter Inches mm		Type of Power	Minimum Amps	Optimum* Amps	Maximum Amps
1/8	3.2	DCEP	70	110	140
5/32	4.0	DCEP	80	160	190
3/16	4.8	DCEP	120	190	230

^{*}For out of position welding, reduce amperages shown by 15%.

TYPICAL DEPOSITION DATA (at optimum):

Dian Inches	neter mm	Type of Power	Amps	Volts	Deposition Rate Ibs/hr	Deposition Efficiency*%
1/8	3.2	DCEP	110	26-28	2.19	69.9
5/32	4.0	DCEP	140	26-28	2.68	69.2
3/16	4.8	DCEP	180	26-28	3.86	72.5

^{*}Allowance made for 2" stub loss included.

 Maintaining a proper welding procedure - including pre-heat and interpass temperatures - may be critical depending on the type and thickness of steel being welded.

STANDARD DIAMETERS AND PACKAGES: For a complete list of diameters and packaging, please contact Hobart Brothers at (800) 424-1543, or (937) 332-5188 for International Customer Service.

Diameter		Length		50-lb
Inches	mm	Inches	mm	Can
1/8	3.2	14	355	S116644-035
5/32	4.0	14	355	S116651-035
3/16	4.8	14	355	S116658-035

CONFORMANCES AND APPROVALS:

- AWS A5.5, E7010-P1, ASME SFA 5.5, F-3, A-1, E7010-P1
- ABS E7010-P1

TECHNICAL QUESTIONS? For technical support of Hobart Filler Metals products, contact the Applications Engineering department by phone toll-free at 1-800-532-2618 or by e-mail at Applications.Engineering@hobartbrothers.com

CAUTION

Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standard Z49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36th St., Miami, FL 33166 (can also be downloaded online at www.aws.org); OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210

Safety Data Sheets on any Hobart Brothers LLC product may be obtained from Hobart Customer Service or at www.hobartbrothers.com.

Because Hobart Brothers LLC is constantly improving products, Hobart reserves the right to change design and/or specifications without notice.

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